The American Society for Cell Biology
Thirty-third Annual Meeting
New Orleans, LA, December 11-15, 1993

SPECIAL INTEREST SUBGROUP MEETINGS

On Saturday, December 11, 1993, from 2:30PM-5:00PM, prior to the official opening of the Thirty-third ASCB Annual Meeting, facilities will be available for groups with common interests to organize and hold informal meetings. Meeting rooms will be provided at no charge; subgroup organizers are responsible for incurring costs of audiovisual equipment and any other incremental costs of the meeting. These meetings will be publicized in the printed program, but no abstracts will be required or published. Applicants must submit a completed form by August 6, 1993, to the: ASCB National Office, 9650 Rockville Pike, Bethesda, MD 20814-3992. Applications will be reviewed by the Committee on Scientific Meetings and organizers will be notified of acceptance by August 27, 1993.

I am interested in organizing a subgroup meeting:

NAME: Peter I. Lelkes, Ph.D.

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SUGGESTED TOPIC: Endothelial Cell Heterogeneity and Organ-Specificity

ANTICIPATED ATTENDANCE (for room assignment): 150

BRIEF DESCRIPTION OF CONTENT (including suggested speakers): Endothelial cells (EC's), originate from common hemopoietic stem cells, and provide the ubiquitous lining of the vasculature. This EC lining reveals a remarkable heterogeneity in terms of morphology and functionality. EC organ-specificity is primarily manifested by differential expression of uique gene-products, such as cell surface antigens or fibrinolytic activity. EC organ-specificity is the basis for regional selectivity of e.g. leukocyte adherence and tumor metastasis. Many of the traits of EC heterogeneity are maintained upon isolation of EC's from diverse anatomical locations and can be studied in vitro. As a follow-up to the past two special interest subgroup meetings under the same title, this symposium will explore some cellular and molecular factors and epigenetic cues which determine functional heterogeneity of phenotypically diverse endothelial cells. Such epigenetic factors might be humoral (cytokines or growth factors), extracellular matrix-resident, derived from intercellular signaling or might reflect selective EC adaptation to local variations in hemodynamics or a combination of these parameters.

TENTATIVE LIST OF SPEAKERS AND TOPICS:

P.I. Lelkes - Introduction - "Endothelial cell heterogeneity and organ-specificity"
Patricia D'Amore, Childrens Hospital/Harvard Medical School, Boston, MA - "Differential gene expression in normal and pathological endothelial cells"
M.E. Gerritsen, Miles, Inc., West Haven, CT - "TNF-receptors in large-and microvessel derived endothelial cells"
Derrick Grant, NIDR, NIH, Bethesda, MD - "Molecular aspects of in vitro angiogenesis"
Ralph A. Kelly, Harvard Medical School, Boston, MA - "Cell signalling between rat myocytes and cardiac microvascular myocytes in co-culture"
Joseph Madri, Yale University, New Haven, CT - "Phenotypic modulation of endothelial cells by extracellular matrix proteins and cytokines"
Thomas J. Poole, SUNY Health Science Center, Syracuse, NY - "Embryological origin of endothelial cell diversity"
G.M. Rubanyi, Berlex Biosciences, Richmond, CA - "Role of endothelium in vasculoprotection by estrogens"
B. Sumpio, Yale University Medical School, New Haven, CT - "Heterogeneous responses of endothelial cells from differetmn vascular beds to mechanical strain"
E. Vargas, FDA and NIH, Bethesda, MD - "Electrophysiological differences between heterogeneous endothelial cells"